

C. E. Taylor.

ARTS and CRAFTS

IN

M E T A L

CATALOGUE NUMBER 10

OF

TOOLS and MATERIAL



CHANDLER & BARBER


122-126 SUMMER STREET

BOSTON, MASSACHUSETTS



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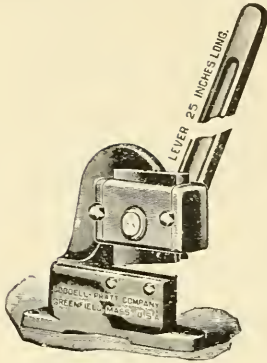


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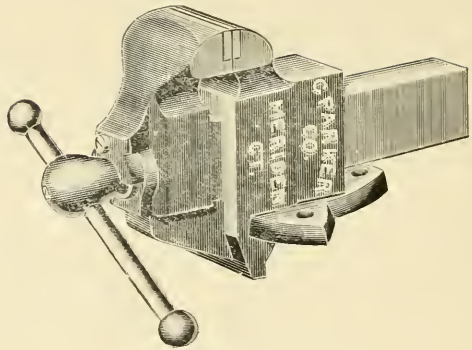
The above cuts illustrate a few of the many articles made from our own patterns and which can be easily made from light sheet brass with few and inexpensive tools. This line of work is being taken up by a great many classes of people. The work may be simple or complex according to time, talent, or inclination. It affords a pleasant and profitable change and recreation for the student and teacher, and also for scholars who do not have such work in school. It is taught in many of our high schools and may be adopted by vacation schools, settlement work, etc.

The articles from which our cover cut was made were loaned us by Mr. Alexander Miller of the Brookline, Mass., High School and are the work of pupils in their third and fourth years. They give an idea of the quality of work being done in some of our High Schools in these lines.

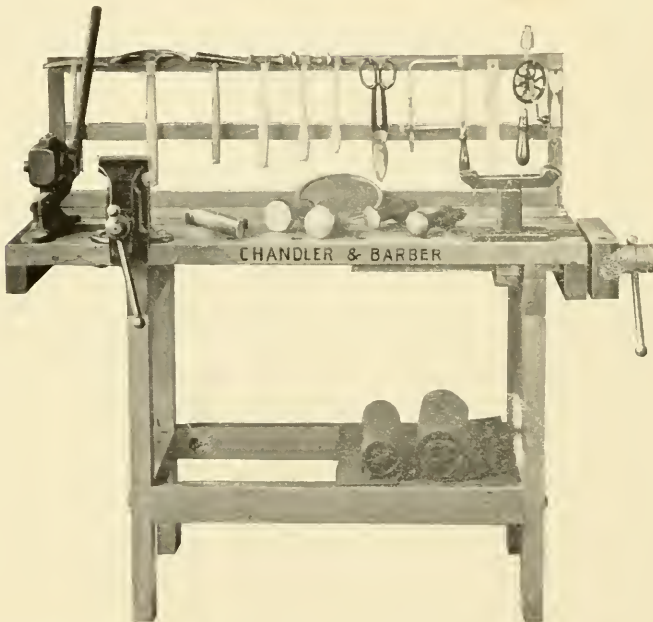
**BENCH SHEAR No. 3232**

Sheets of any width can be readily cut with this shear, the shape of the casting being designed particularly with this end in view. It is provided with a Lever, 25 in. in length, and has a Blade, 4 in. long, opening 9-16 in. at the front.

Price, each, \$15.00

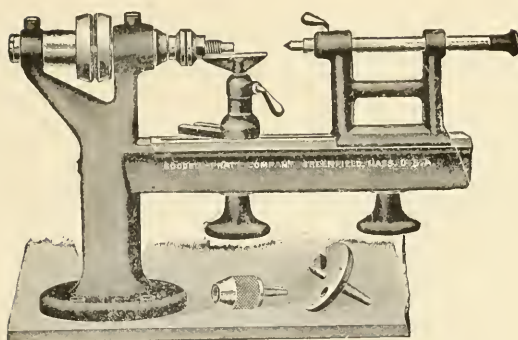
**BENCH VISE No. 890**

Style	Jaw	Weight	Net Price
A	3 $\frac{1}{4}$ in.	25	\$4.50
B	3 $\frac{3}{8}$ "	31	5.00
C	4 $\frac{1}{8}$ "	48	6.50
D	4 $\frac{3}{8}$ "	62	7.50

**BENCH NO. 10 $\frac{1}{2}$ WITH METAL OUTFIT**

No. 10 $\frac{1}{2}$.	Bench as cut, 4 ft. long, with vise	\$14.00
" 10 $\frac{1}{2}$.	" " " 4 " " " lighter vise	13.00
" 11.	" " " 3 " " " " " also Cabinet to hold tools	11.50
" 15 $\frac{1}{2}$.	" " " 4 " " " " " " also Cabinet to hold tools	18.00

(Write for our Catalogue No. 9, showing Benches at all prices for individual, school or shop use.)

**POLISHING LATHE**

No. 211

Price, each, \$6.00

This Polishing Lathe, complete with Tail Stock, Tee Rest, Face Plate, Saw Arbor, and Three-Jawed Chuck, capacity 0 to 5-32 in., admits of a large variety of polishing, grinding, and similar operations not possible upon the ordinary styles of plain Polishing Heads. The bed is 12 in. long and swings 5 in. on centers. Weight, 18 lbs.

POLISHING LATHE AND BENCH

No. 2222

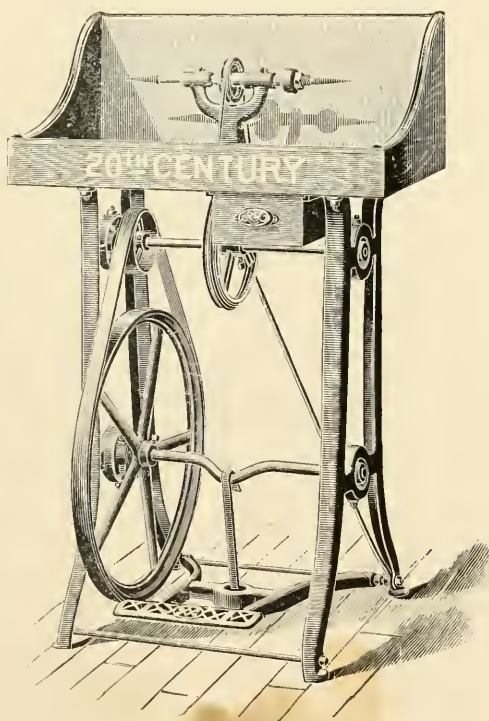
Price, each, \$20.00

Felt Buffing Wheels

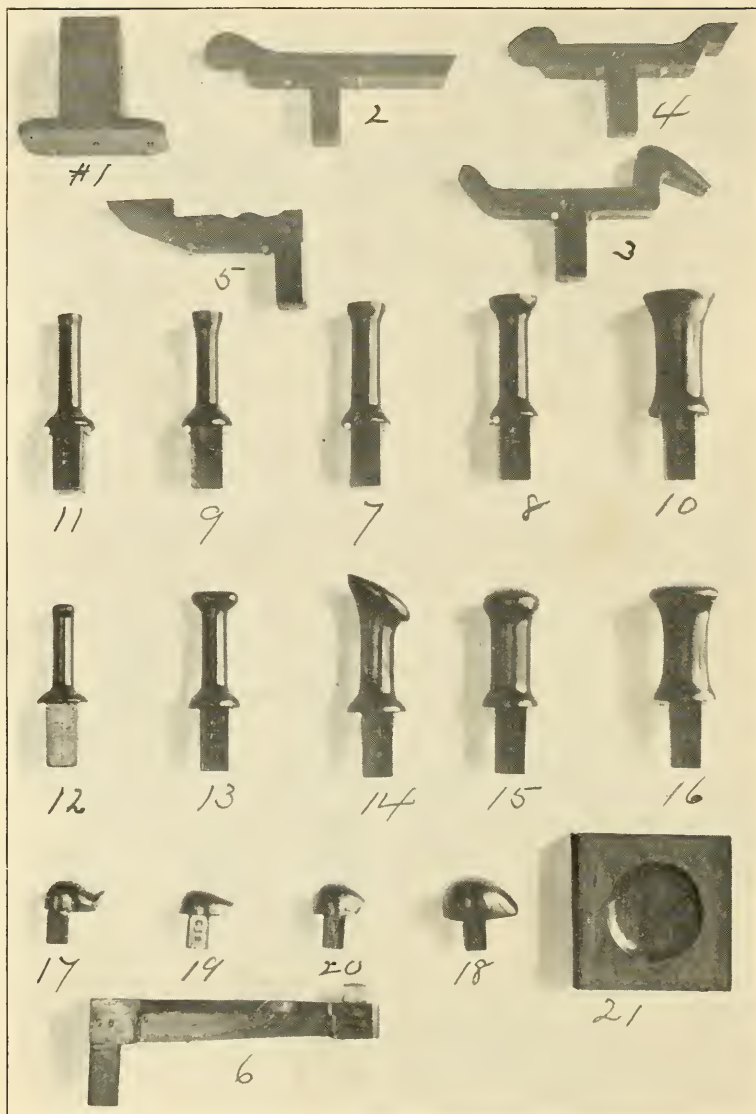
2x $\frac{3}{4}$ in.	Price, each,	\$0.20
3x $\frac{1}{2}$ "	" "	.30
4x $\frac{7}{8}$ "	" "	.50
5x $\frac{7}{8}$ "	" "	.75

Walrus Buffing Wheels

5x $\frac{3}{4}$ in.	Price, each,	\$0.75
6x $\frac{3}{4}$ "	" "	1.00
Carborundum Grinding Wheels		
3x $\frac{1}{2}$ in.	Price, each,	\$0.50
4x $\frac{3}{4}$ "	" "	.65
5x $\frac{3}{4}$ "	" "	.75
6x $\frac{3}{4}$ "	" "	1.00



(Special Prices on Class Orders.)



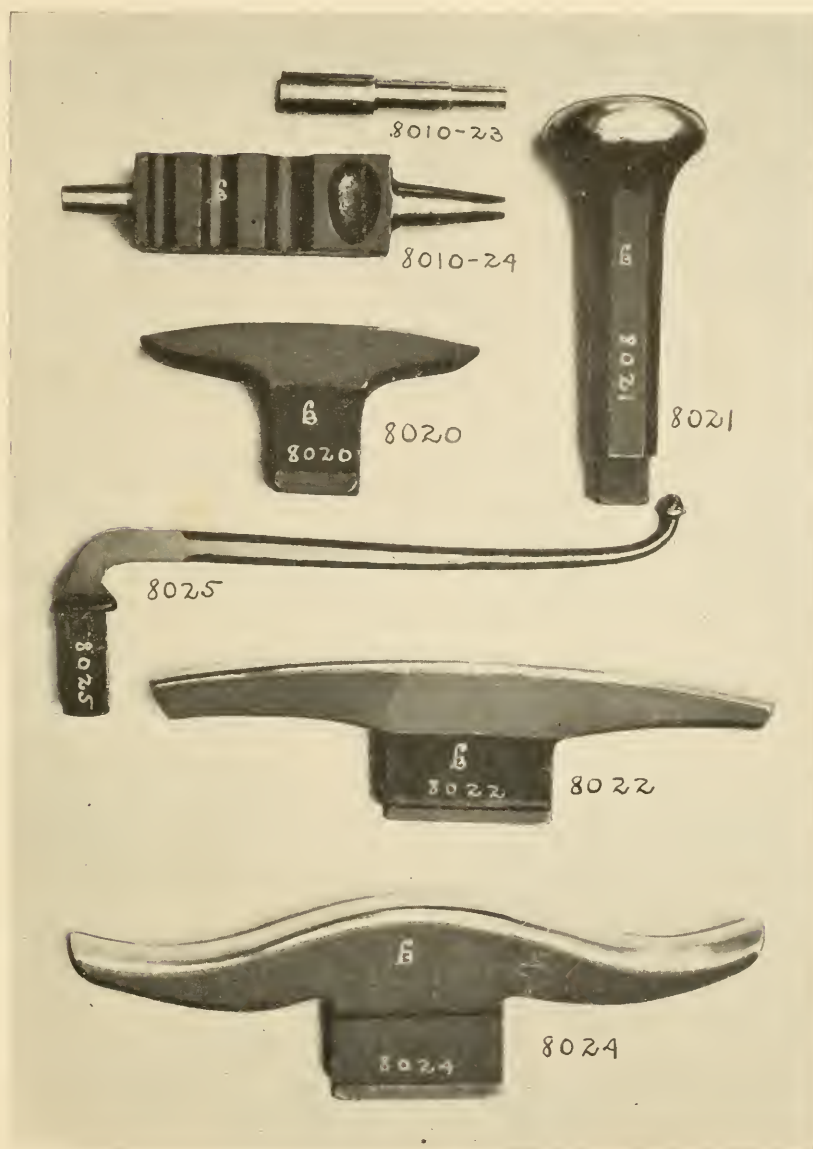
ANVILS NO. 8010

Designed by R. H. GALLAGHER.

Mr. Gallagher was for many years an instructor at Rindge Manual Training School at Cambridge, Mass. and designed these from practical experience.

(For prices see page 7.)

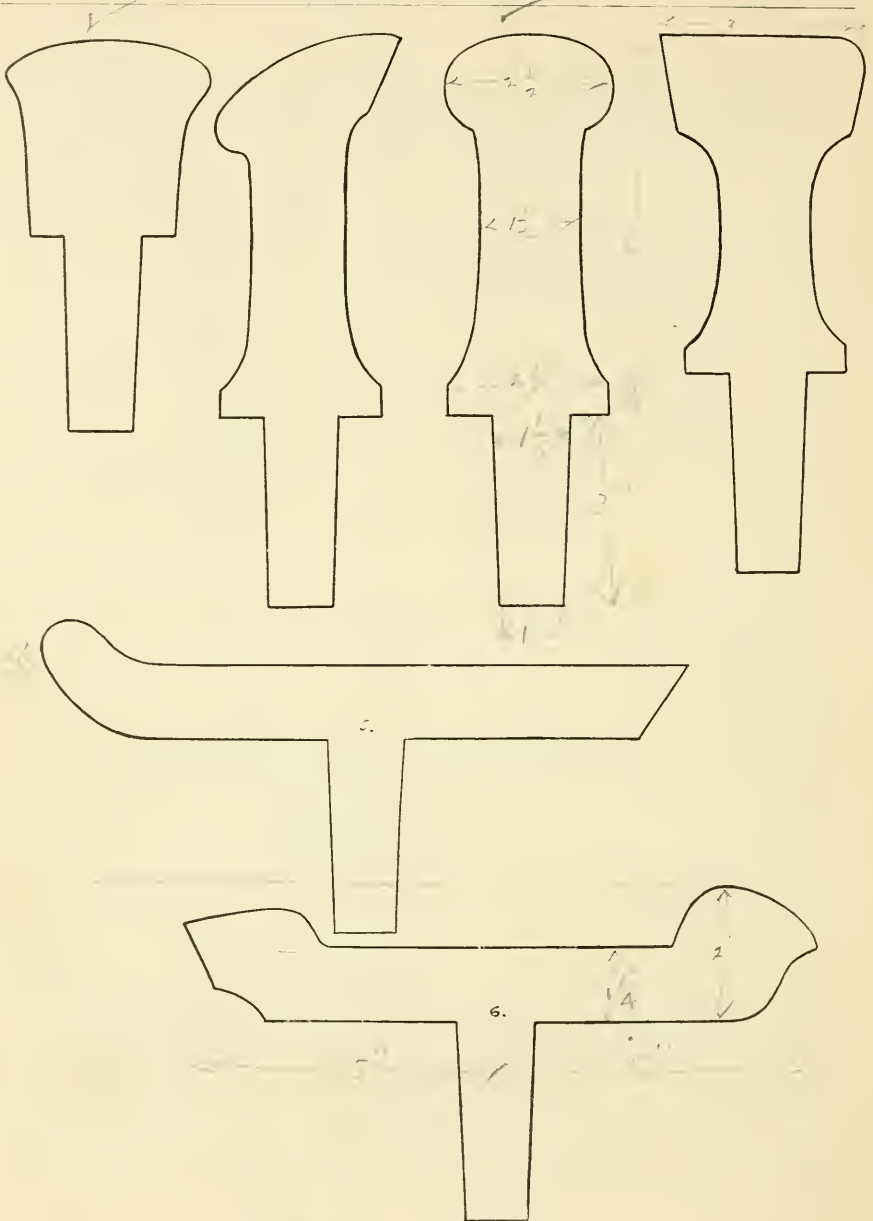
(Books on Arts and Crafts at publishers' prices.)



HEAVY ANVILS as Used by Silversmiths

These will be found useful and even necessary on the larger kinds of work.
See page 7 for prices.

(Enamels in all colors in any quantity.)



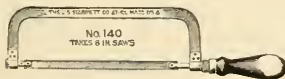
ANVILS, SET NO. 7010

Designed by L. H. MARTIN and JOSEPH SANDBERG

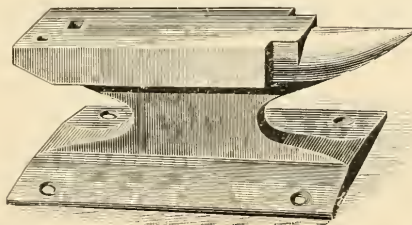
The above outlines show a simple but effective set of Anvils on which a great variety of work may be accomplished. We have sent out hundreds of these to satisfied customers. For prices see page 7.

(Market Prices on Brass and Copper.)

No.	Size		Price
7010		Set of Six Anvils with Holder for use on Manual Training Bench, no vise necessary. Shown on page 6	\$5.00
7010		Holder only	each, 1.25
8010		Anvils " either shape 1-6. (Specify number)	.65
		Set of twenty shapes and holder, shown on page 4	13.00
	1	Holder for all shapes but 17-21	1.50
	2, 3, 4, 5	Extension Anvils	each, .75
	6	" " for using shape 17-20	1.50
	7, 9, 11	Round Top, Flat Anvils	each, .50
	8	" " " " " " " "	.55
	10	" " " " " " " "	.65
	12, 13	Oval " " " " " " " "	.50
	14, 15, 16	Three exceptionally useful shapes	.65
	17, 18, 19, 20	Small shapes for use with No. 6	.35
	21	For Tray use mostly	1.50
	22	Cone Shape for Ring Work, not illustrated	2.00
	23	For Forming Rings and Circular Work, shown on page 5	1.50
	24	For Forming Rings and Circular Work, shown on page 5	1.50
These next five shapes are much larger and heavier than the above, made especially for Silversmiths' use. They are also most useful in School work for use on larger models. They are designed for use in heavy Iron Vises.			
8020		Extension Anvil, shown on page 5	\$1.00
8021		Rounding Top, shown on page 5	1.50
8022		Long Extension Top, shown on page 5	2.25
8023		" " " " broader than 8022	2.25
8024		" " " " with Curved Surface	3.00
8025		Solid Steel Snarling Iron	3.50
8050	A	" " Bench Anvil, Face, 5x1½; Wght., 3 lbs.	1.40
	B	" " " " " " 6x2; " 6½ "	1.75
	C	" " " " " " 7x2; " 10½ "	2.10



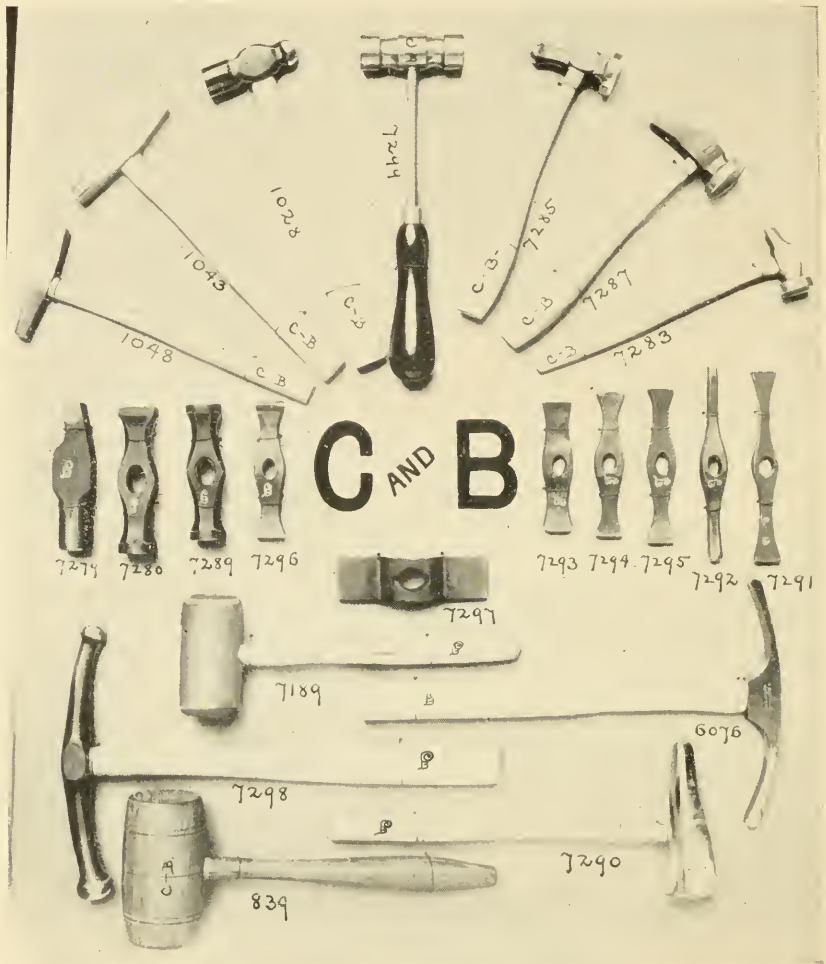
No. 3140.	Plain	Frame, Nickered, 8 in.	each,	\$0.75
" 3145.	Extension	" " 8-12 in.	"	1.00
Blades,	8 in., doz.	\$0.50	9 in., doz.	\$0.55
	10 in., doz.	\$0.65	12 in., doz.	\$0.80



Anvils No. 8050

Sizes A, B or C, as above.

(Will mail any book published at publishers' prices.)



HAMMERS AND MALLETS. (For Prices see page 9)

Manual Training needs no apology, as that or Industrial Education is talked of and discussed privately and publicly everywhere. We are an industrial community and our future along these lines must depend largely on the education of the rising generation. Vocational training for the ninety and more per cent who leave school without aim or purpose will meet a long-existing need and is rapidly taking thought and expression among educators and thinking people. For the more artistic side of this class of work Beaten or Worked Metal offers great opportunities for those qualified to take it up.

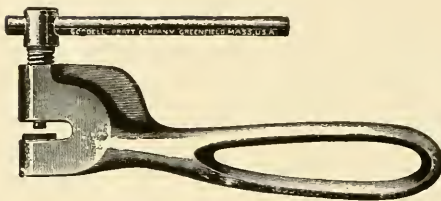
HAMMERS, MALLETS, ETC.

No.	Face	Article	Price
839	3½ in.	Mallets, Hickory, Large	each, \$0.30
	2½ "	" " Medium	.20
	¾ "	" " Small	.12
1026	12 oz.	Hammers, Ball Pein, Polished	.65
1027	10 "	" " " "	.60
1028	7 "	" " " "	.55
1042	13 "	" " Riveting Cross Pein	.40
1043	7 "	" " " "	.35
1044	4 "	" " " "	.30
1047	2 "	" " Round "	.42
1048	3 "	" " " "	.45
6076	13 "	" " Roughing, Polished	1.25
7189	1½ "	Mallets, Raw Hide, 1 in. Face	.27
	6 "	" " " " 1½ "	.40
	10 "	" " " " 2 "	.55
7279	16 "	Hammer, Roughing and Planishing	1.25
7280*	¾ in.	Planishing, 1 sq., 1 rd. Face	.85
	1 "	" " " " " "	.85
	1 3/16 "	" " " " " "	.85
	1 5/8 "	" " " " " "	.85
7283*	¾ "	Chasing, Soft Face	.60
	1 "	" " " " " "	.65
	1 ¼ "	" " " " " "	.70
7285	1 "	Finishing with Ball Pein	.75
	1 1/8 "	" " " " " "	.80
	1 ¼ "	" " " " " "	.85
	1 3/8 "	" " " " " "	.90
	1 ½ "	" " " " " "	.95
7287*	1 "	Stubb's Chasing Hard Face	.95
	1 1/8 "	" " " " " "	1.00
	1 3/16 "	" " " " " "	1.15
	1 ¼ "	" " " " " "	1.35
7289	¾ "	Planishing, 2 Rd. Faces	.85
	1 "	" " " " " "	.85
	1 3/16 "	" " " " " "	.85
	1 5/8 "	" " " " " "	.85
7290		Mallets, Horn	.40
7291	5 "	Hammers, Shaping, Thin, Oval Face	1.25
7292	5½ "	" " " " Round Face	1.25
7293	5 "	" " " " Oval Face	1.25
7294	4¾ "	" " " " " "	1.25
7295	5 "	" " " " " "	1.25
7296	4¾ "	" " " " " "	1.25
7297	14 oz.	" " Roughing, 1½x¾ Face	1.50
7298	18 "	" " Rounding, " "	2.25
7299	4 "	Mallets, Brass, 9-16x1¾ in.	.35
	8 "	" " " " ¾x2¼ "	.45
	16 "	" " " " 1x3 "	.80
7305*	1 lb.	Iron, Raw Hide Faces, 1½ in	.80
	1½ "	" " " " " " 1½ "	1.00
	2 "	" " " " " " 1¾ "	1.20
	4 "	" " " " " " 2 "	1.75

All Hammers are Handled.

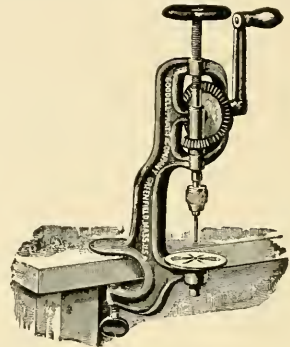
* Not illustrated.

(Copper Work by A. F. Rose.)

**PUNCH FOR LIGHT WORK**

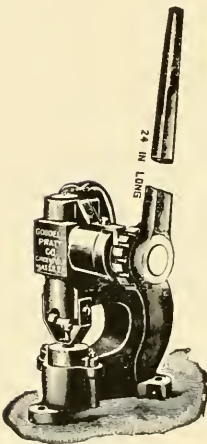
No. 3150.

Price, each, \$0.50

**BENCH DRILL, NO. 398**

This is a substantial small machine, with Iron Frame, Cut Gears, Steel Feed Screw, and Adjustable Table, all well made and nicely fitted. It is furnished complete with a Three-Jawed Chuck, capacity 0 to $\frac{1}{4}$ in. The height from the table to the feed wheel is 13 in.

Price, each, \$4.00

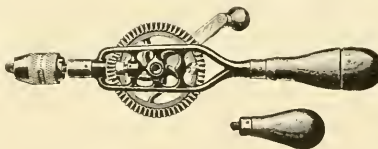
**BENCH PUNCH**

NO. 3233

This bench punch is strong enough and heavy enough to punch $\frac{3}{8}$ -in. hole in soft steel or iron,

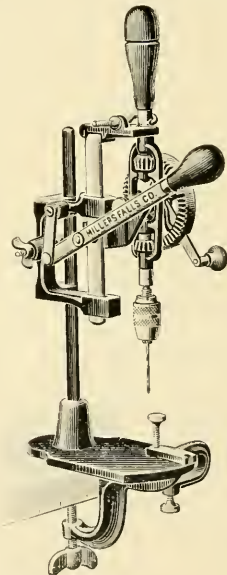
$\frac{1}{8}$ of an inch thick, 4 in. from edge. It is furnished complete, as shown in cut, with one set of Dies for $\frac{3}{8}$ -in. round hole.

Length of Lever, 26 in.

Price, each, with one set $\frac{3}{8}$ -in. round dies \$15.00**HAND DRILL NO. 395**

These Drills are provided with Chucks having three jaws, resting in solid sockets. There are no springs to get out of place or out of order. The chucks are nicked and the handles Cocobola. They hold drills from 0 to 3-16 in. Length over all, 11 $\frac{1}{2}$ in.; weight, 20 oz.

Price, each, \$1.30

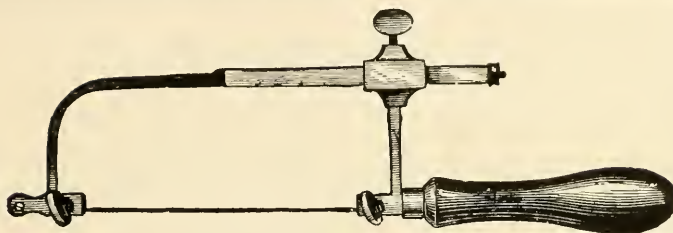
**DRILL HOLDER NO. 380**

The feed is supplied by a compound lever which is convenient, sensitive and effective.

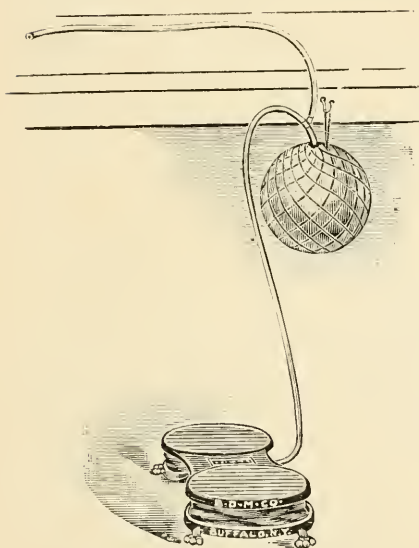
The distance between the chuck and table when Hand Drill No. 395 is used at highest point, is 7 $\frac{1}{4}$ in. Weight, 7 $\frac{1}{2}$ lbs.; height, over all, from table, 15 $\frac{1}{2}$ in.

Price, Holder only . . . \$1.50
 " " and Drill . . . 2.75

(Market Prices on Brass and Copper.)

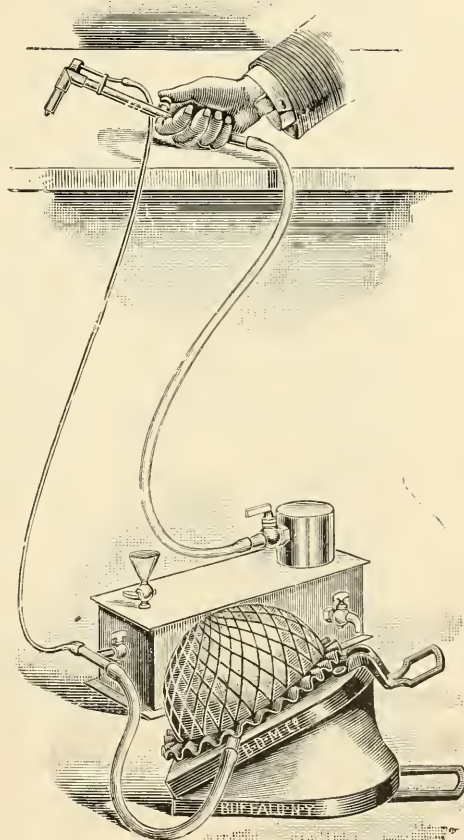
**METAL SAW FRAME NO. 497**

No. 497.	Metal Saw Frame, cuts 2 in. in depth	Price, each,	\$0.50
" 498.	" " " " 3 " "	" "	.65
"	" " " " 4 " "	" "	.75
"	" " " " 5 " "	" "	.80
"	" " " " 6 " "	" "	.85
Blue Label Saws, per gross, \$0.65			per doz., .10

**FOOT BELLOWS NO. 9015**

This is the newest as well as one of the best finished Bellows put on the market. A moderately fast movement keeps the rubber bag fully inflated with Blow Pipe in operation.

Price, \$5.00

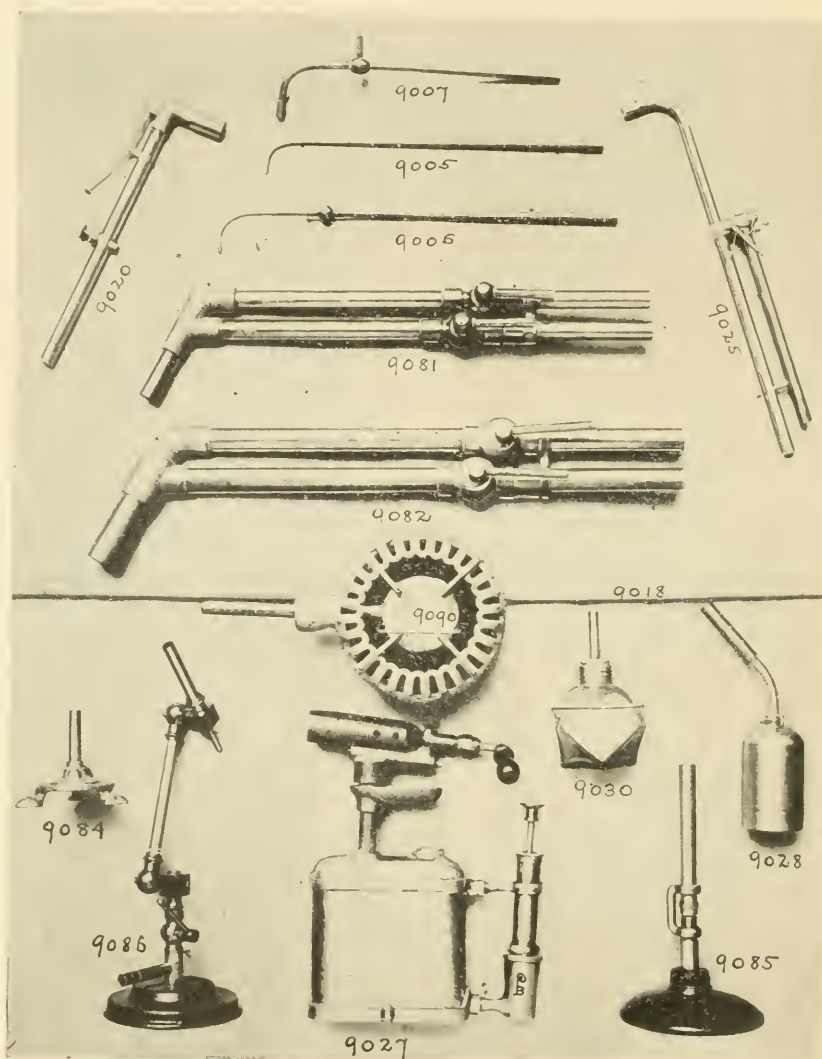
**BLOW PIPE AND GENERATOR No. 8991**

for use with gasoline when gas is not available.

Price, per set, \$13.50

(For Rubber Tubing and Price, see page 13.)

BLOW PIPES

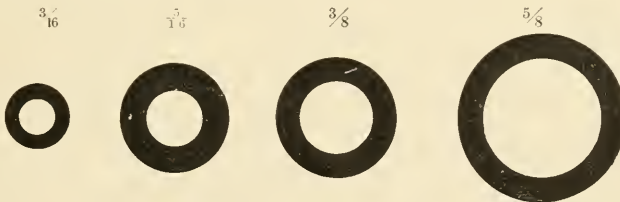


Any system of education must have work in the shaping of material to give it effectiveness.

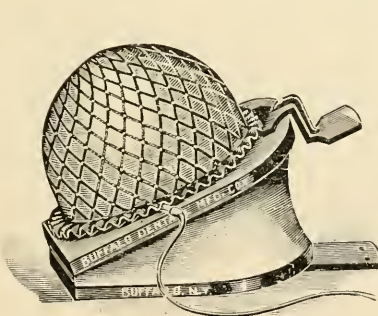
Effectiveness with which one is able to say things is changed by the very education that comes in shaping material, or *doing* things.

(Arts, Crafts for Beginners by Sanford, each, \$1.20)

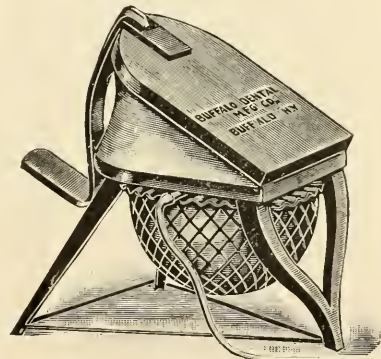
No.	Size	Article	Price
8090		Blow Pipe, Foot Bellows and Generator	\$13.50
9000		Foot Bellows, 7 $\frac{3}{4}$ x 9, 9-in. Rubber Disc	4.00
9001		" " 10 x 11, 12 " " "	5.50
9005	8-in.	Blow Pipe, Mouth	.12
	10 "	" " " " " " " " " " " "	.15
	12 "	" " " " " " " " " " " "	.20
9006		" " with Bulb cleaner	.25
9007		" " mouth for gas	.35
9010		Foot Bellows, 7 $\frac{3}{4}$ x 9, 9-in. Disc	5.00
9011		" " 10x11, 12 " " "	6.25
9018	3-16 in.	Rubber Tubing, Red Corrugated made from pure stock, per ft.	.12
	5-16 "	" " " " " " " " " " " "	.20
	3-8 in.	" " " " " " " " " " " "	.23
	1-2 "	" " " " " " " " " " " "	.35
9020		Blow Pipe for Gas or Gasoline, specify for which	2.00
9022		" " regulated by grip of hand, not illustrated	1.75
9025		" " Dr. Mellotte's Pattern	3.00
9027		Torch Gasoline, holds 1 pt.	3.50
9028		" " Alcohol, " Imp " for light work, especially soldering	1.50
9030		Alcoholic Lamp, " Simplicity "	.75
9080	7-16 in.	Blow Pipe for Gas, $\frac{1}{4}$ in., Air for $\frac{3}{8}$ in. Gas Tubing	1.25
9081	$\frac{5}{8}$ "	" " 3-16 " " $\frac{1}{2}$ " " " "	1.75
9082	1 "	" " 5-16 " " $\frac{3}{4}$ " " " "	2.25
9084		Bunsen Burner, " " " " " " " " " "	.25
9085		" " Adjustable on Iron Base	1.00
9086		Blow Pipe Fletchers, Herapath Dble. Set	3.75
9090		Gas Stove, 1 Burner	.65



Actual Size Rubber Tubing, No. 9018



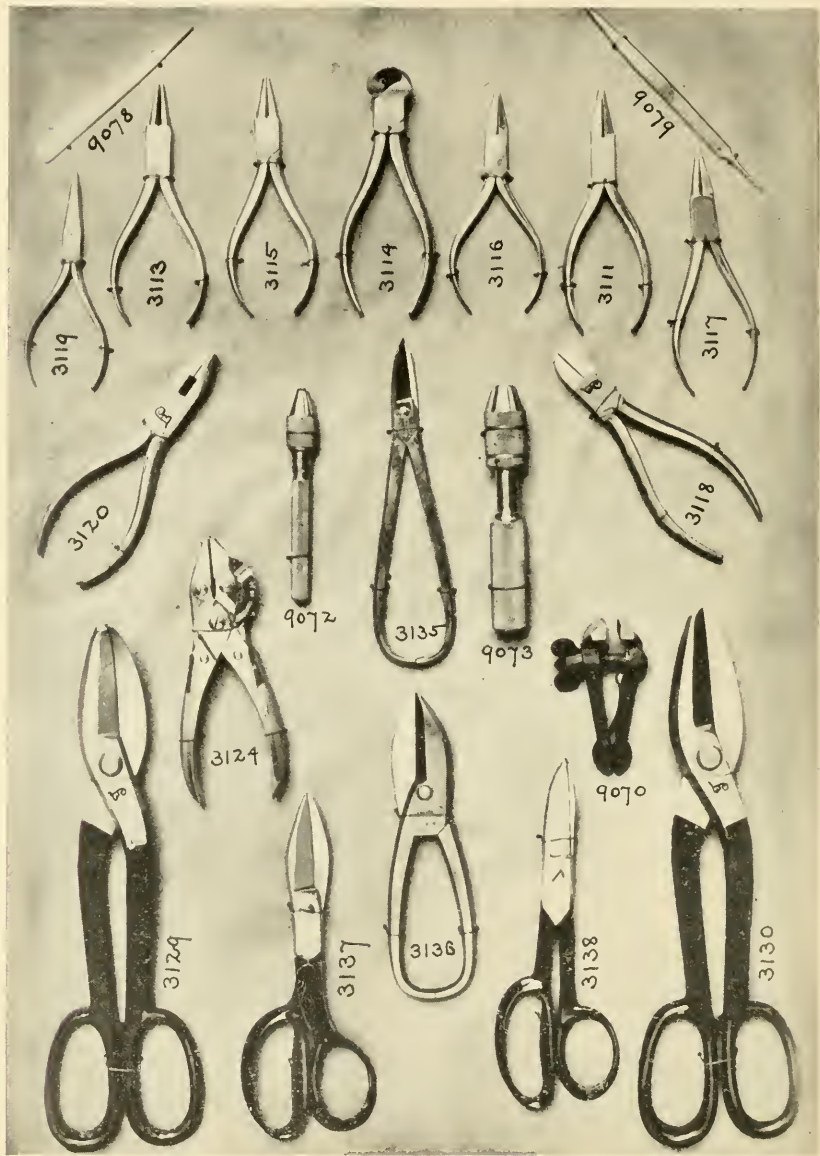
No. 9000 Foot Bellows



No. 9010 Foot Bellows

New Discs and Nets for Foot Bellows furnished separately.

(Special Prices on Class Orders.)



SHEARS AND PLYERS. (For prices, see p. 15)

As work in any line of manual training progresses new models and lines of work are planned and executed by progressive teachers. Any completed work educates the pupils along the greater or motor side of their brain and has great educational value, not always easily explained. A practical and logical explanation to those unfamiliar with the work is to state the fact that from two to five hours per week may be given to manual training to any average class without loss of rank in academic work by the pupils taking the work.

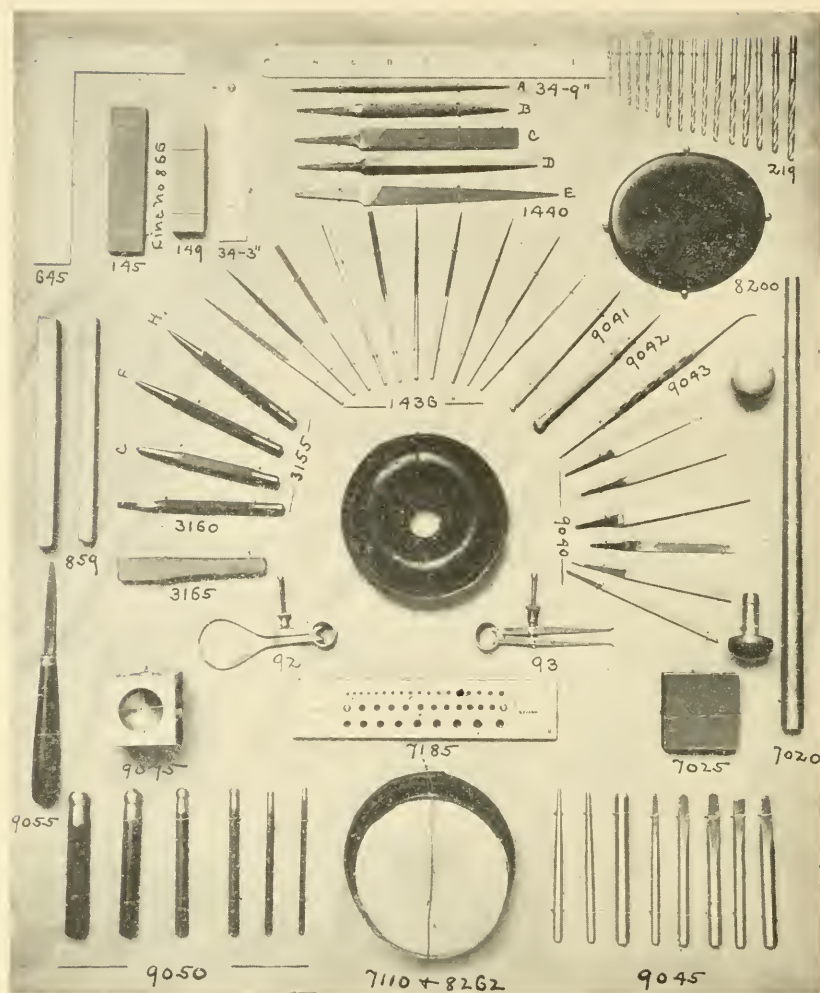
PLYERS

No.	Size	Article	Price
3111	4½-in.	Plyers, polished, flat nose	\$0.30
	5 "	" " " " " " " "	.35
	5½ "	" " " " " " " "	.40
	6 "	" " " " " " " "	.45
3113	4½ "	" " round nose	.30
	5 "	" " " " " " " "	.35
	5½ "	" " " " " " " "	.40
	6 "	" " " " " " " "	.45
3114	5 "	" " end cut	.60
	5½ "	" " " " " " " "	.65
	6 "	" " " " " " " "	.70
3115	5 "	" " nickeled, round nose, smooth jaw	.45
3116	5 "	" " flat	.45
3117	5 "	" " one flat, one round, smooth	.75
3118	5 "	" " polished, diagonal cutters	.85
	5½ "	" " " " " " " "	.95
3119	5 "	" " long nose, round, flat face	.38
	5½ "	" " " " " " " "	.45
3120	5 "	" " side cutters	.65
	6 "	" " " " " " " "	.70
	7 "	" " " " " " " "	.90
3124	4½ "	" " nickeled, parallel jaw combination	.85
	5½ "	" " " " " " " "	1.00
	6½ "	" " " " " " " "	1.25
3129	2 "	Tinners' shears, japanned, curved blade	1.50
	2½ "	" " " " " " " "	1.63
	3 "	" " " " " " " "	1.75
3130	2 "	" " straight	.85
	2½ "	" " " " " " " "	1.15
	3 "	" " " " " " " "	1.50
	3½ "	" " " " " " " "	2.00
3135	6½ "	Jewellers' shears, curved blade, nickeled	.87
3136	5 "	" " straight polished	.85
	6 "	" " " " " " " "	.90
	7 "	" " " " " " " "	1.00
	8 "	" " " " " " " "	1.10
3137	7½ "	Dental " japanned, straight blade	.75
3138	7½ "	" " " " curved	1.25
5022	12 "	Tongs, bent, malleable	.35
5024	17 "	" " " " " " " "	.50
9070	3 "	Hand Vise, for holding small work	.50
9072	4½ "	" " nickeled	1.50
9073	5½ "	" " " " " " " "	1.50
9078		Tweezers, polished, plain	.10
9079		" " with scribe	.10



NO. 5022. MALLEABLE TONGS

(Special Prices on Class Orders.)



SMALL TOOLS

Student's Set No. 43, Not Illustrated

- | | |
|--|-------------------------------------|
| 1 Metal Box, 11x8x5 with lock and 2 keys | 1 File, Handled, 1440 B |
| 1 Clamp Vise, 1½ in. jaw | 1 " " 1440 D |
| 1 Hammer, No. 7283, 1½ in. | 1 " " 1440 E |
| 1 pr. Shears, No. 3130, 2 in. | 1 Blow Pipe and Tubing, No. 9007. |
| 1 Metal Saw, No. 498, 3 in. | 1 Borax Slate, No. 8230, 3½ in. |
| 1 pr. Dividers, No. 75, 5 in. | 1 Cake Borax, No. 8210 |
| 1 Pr. Pliers, No. 3111, 4½ in. | 1 Cake Tripoli, No. 8212. |
| 1 Pr. Pliers, No. 3119, 5 in. | 1 Stone, No. 859, ¾ in. |
| 3 Gravers, No. 9040, Asstd. | 2 Pc. Tool Steel for Chasing Tools. |
| 3 Files, No. 1436, 4¾ in., Asstd. | 1 Hand Buff, No. 8240, 1 in. |
| 3 " " 1436, 6¼ " " | |

Price of Set, \$6.50

(New Patterns of Shades and Utensils Constantly Being Added to Our Stock.)

No.	Size	Article	Price
34	4 in.	Steel Rule, Graduated, 64ths	Each, \$0.20
	6 "	" " " "	" .25
	9 "	" " " "	" .30
	12 "	" " " "	" .40
92	4 "	Outside Calipers, with solid nut	" .45
	5 "	" " " "	" .48
	6 "	" " " "	" .50
93	4 "	Inside " " " "	" .45
	5 "	" " " "	" .48
	6 "	" " " "	" .50
94	4 "	Dividers, with solid nut	" .45
	5 "	" " " "	" .48
	6 "	" " " "	" .50
219		Straight Shank Drills, see page 18	" "
645	6 "	Steel Square, Flat	" .35
859	$\frac{1}{4}$ "	Scotch Stones, 6 in. long	Doz., \$0.75
	$\frac{3}{8}$ "	" " " "	.85
	$\frac{1}{2}$ "	" " " "	1.00
866	No. 145	Carborundum Stones, $4 \times 1 \times \frac{1}{4}$ in., Med.	" .25
	149	" " " " $3 \times 1 \times \frac{1}{4}$ " Fine	" .15
1436	$4\frac{3}{4}$ in.	Files, Needle, 12 Asstd Shapes in set	Doz., \$1.00
	$5\frac{1}{2}$ "	" " " "	1.15
	$6\frac{1}{4}$ "	" " " "	1.25
1440A	$4\frac{1}{2}$ "	" Superfine American Swiss, 3 Square	" .25
B	$4\frac{1}{2}$ "	" " " " $\frac{1}{2}$ Round	" .27
C	$4\frac{1}{2}$ "	" " " " Flat, one safe edge	" .25
D	5 "	" " " " Barette	" .28
E	5 "	" " " " Flat, Thin, Tapering	" .28

A full line of American and American Swiss Files in all shapes and sizes always in stock.

3155A		Punch, very small center	Each, \$0.15
B		" " " "	" .15
C		" medium " "	" .15
D		" large " "	" .15
F		" cup point, all sizes	" .10
H		" prick, " "	" .15
3164		Cold Chisels, small, asstd, $1\frac{3}{8}$ in.	" .25
3165		Rivet Sets, for either No. 8, 9, 10, 12 or 14 Rivets	" .25
7020	10 in.	Ring Mandrels, True Taper Steel, $\frac{1}{2} \times 1$ in.	" .50
	12 "	" " " " $\frac{7}{8} \times \frac{3}{4}$ "	" .65
	14 "	" " " " $1\frac{3}{16} \times \frac{3}{8}$ "	" .75
7025	2 "	Anvils, Square, Steel block, polished	1.30
	$2\frac{1}{2}$ "	" " " " " "	1.60
	3 "	" " " " " "	1.80
	$3\frac{1}{2}$ "	" " " " " "	2.00
7110	4 "	Engravers' Leather Pads Ring	" .55
	5 "	" " " " " "	" .60
	6 "	" " " " " "	" .65
7111*		" " " " Solid, same price as 7110.	
7185		Drill Gauge with Gauge for Taps and Wire	" 1.40
9282A *		Wire and Sheet Metal Gauge, 0-36. See page 23	" 2.10
9282B*		" " " " " " 5-35. " 23	" 1.70

*Not Illustrated.

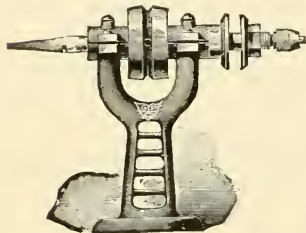
(Special Prices on Class Orders.)

NO. 219. STRAIGHT SHANK DRILLS

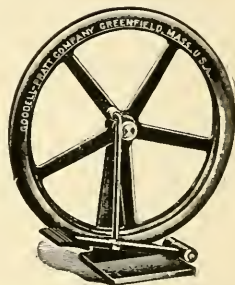
No. of Gauge	Dec. Equiv.	Price Doz.	Price Each	No. of Gauge	Dec. Equiv.	Price Doz.	Price Ea.	No. of Gauge	Dec. Equiv.	Price Doz.	Price Ea.	No. of Gauge	Dec. Equiv.	Price Doz.	Price Ea.
1	.228	\$1.17	\$0.12	16	11-64	\$0.98	\$0.10	31	.120	\$0.70	\$0.07	46	.081	\$0.48	\$0.05
2	.221	1.17	.12	17	.173	.98	.10	32	.116	.70	.07	47	5-64	.48	.05
3	.213	1.17	.12	18	.169	.98	.10	33	.113	.70	.07	48	.076	.48	.05
4	.209	1.17	.12	19	.166	.98	.10	34	7-64	.70	.07	49	.073	.48	.05
5	.205	1.17	.12	20	5-32	.98	.10	35	.110	.70	.07	50	.070	.48	.05
6	.204	1.13	.11	21	.159	.88	.09	36	.106	.63	.07	51	.067	.48	.05
7	.201	1.13	.11	22	.157	.88	.09	37	.104	.63	.07	52	1-16	.48	.05
8	.199	1.13	.11	23	.154	.88	.09	38	.101	.63	.07	53	.059	.48	.05
9	.196	1.13	.11	24	.152	.88	.09	39	.099	.63	.07	54	.055	.48	.05
10	3-16	1.13	.11	25	.149	.88	.09	40	.098	.63	.07	55	.052	.48	.05
11	.191	1.05	.10	26	.147	.78	.08	41	3-32	.55	.06	56	3-64	.48	.05
12	.189	1.05	.10	27	9-64	.78	.08	42	.093	.55	.06	57	.043	.48	.05
13	.185	1.05	.10	28	.140	.78	.08	43	.089	.55	.06	58	.042	.48	.05
14	.182	1.05	.10	29	.136	.78	.08	44	.086	.55	.06	59	.041	.48	.05
15	.180	1.05	.10	30	1-8	.78	.08	45	.082	.55	.06	60	.040	.48	.05

- A Set of 36 Drills Nos. 30-65, mtd. in Mahogany Case with cover . . . \$1.75
 B Full Set of Drills, 1-60, without case . . . 3.65
 C One-half Set of Drills, 1-59, odd numbers, without case . . . 2.00

POLISHING HEAD, NO. 9223

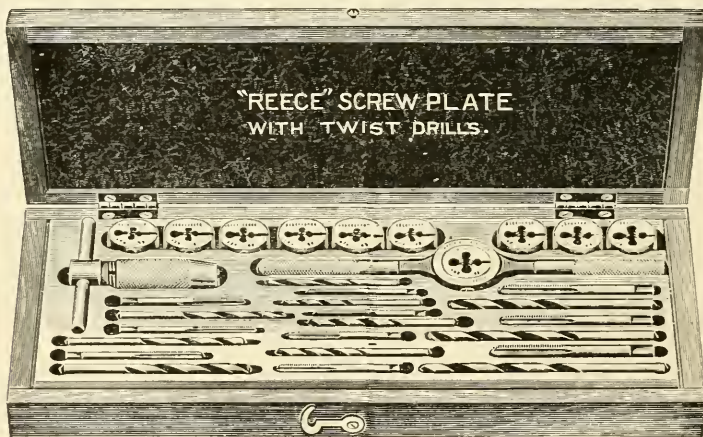


Solid Iron Frame, 6 in. high; Steel Spindle, 8 in. long, $\frac{3}{8}$ -in. diam, flukes $\frac{3}{4}$ in. Wheel, $\frac{1}{4}$ in. Belt, Drill 0- $\frac{5}{32}$ Price, \$2.00



FOOT WHEEL, NO. 9216

16 $\frac{1}{4}$ in. Diam. Wheel, net weight, 25 lbs. Price, \$2.50



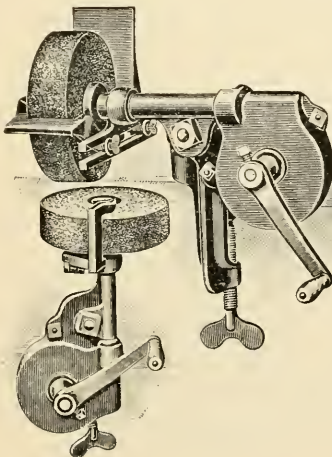
SCREW PLATE, NO. 221

List of Regular Assortments

- Cuts 4³⁶, 6³², 8³², 10²⁴, 12²⁴, machine screw sizes. Morse Twist Drills included. Price, complete in case . . . \$6.25
- Cuts 4³⁶, 6³², 8³², 10²⁴, 12²⁴, 14²⁰, 16¹⁸, machine screw sizes. Morse Twist Drills included. Price, complete in case . . . 7.25
- Cuts $\frac{1}{8}$ in.⁴⁰, 5-32 in.³², 3-16 in.²⁴, 7-32 in.²⁴, $\frac{1}{4}$ in.²⁰. Fractional sizes. Morse Twist Drills included. Price, complete in case . . . 6.25
 (Market Prices on German Silver, Brass or Copper.)

No.	Size	Article	Price
(Continued from page 17)			
8200		Enamels, Flux for Copper, per oz.	\$0.12
		" Colors, except Reds, per oz.	.35
		" Reds,, per oz.	.45
8218		Pitch Compo., per lb.	.25
8260		" Pan Flat, 2 lbs.	.60
8262		" Bowls Filled, 4 in. \$0.40; 6 in.	.60
8270	2 - in.	Mortars and Pestles, Agate	Each, 1.75
	2½ "	" " " "	" 2.25
	3 "	" " " "	" 4.25
8272	2 "	" " " Wedgewood	" .35
	3 "	" " " "	" .50
	3½ "	" " " "	" .65
	4 "	" " " "	" .75
9040		Gravers, Set of 5, Handled and Sharpened, 2 Flat, 2 Round, 1 Diamond Point	.85
		Gravers, Handled and Sharpened. Specify shape,	Each, .20
9041		Scribers, Nickeled	.20
9042		" " Removable Point	.25
9043		" Twisted, One End Bent	.25
9045		Chasing Tools (8 in set) " each	2.00 .30
9050		Dapping Punches (set of 12)	1.75
		" " " 18	2.50
		" " " 24	3.25
9055		Triangular Scrapers, Handled	Each, .35
9075	1 ¾ in.	Dapping Blocks	" 1.35
	1 ½ "	" " " "	" 1.50
	1 ¼ "	" " " "	" 1.75

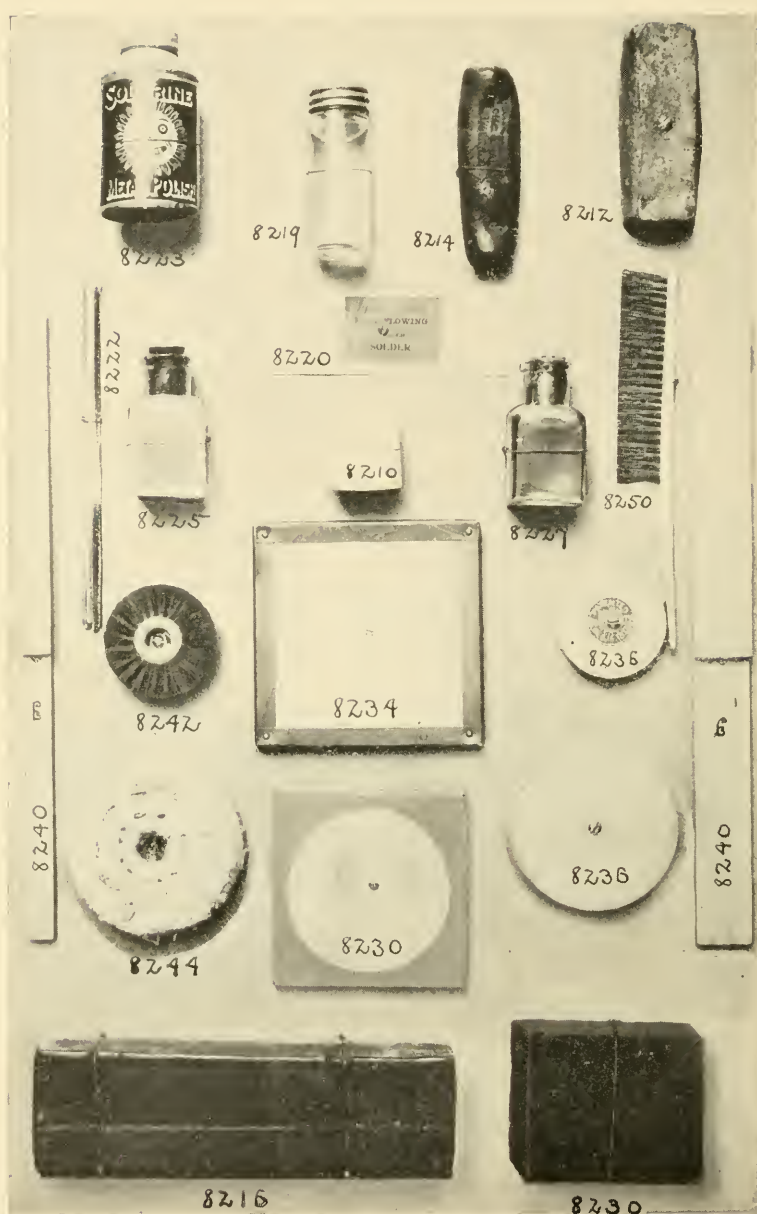
TOOL GRINDER, NO. 872



This is the best Grinder we have ever seen for anywhere near the price. It is the only machine made in which every part of the Wheel can be utilized for grinding and polishing. It runs very quietly and with great speed.

Grinder includes Chisel Guide and Tool Rest with Carborundum Wheel, 5x1¼ in. Weight, 10 lbs. Price, \$4.25

(Special Prices on Class Orders.)



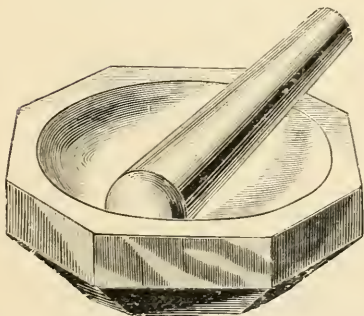
SUPPLIES. (For prices, see page 21.)

New Tools and Supplies are being constantly made, improved or adapted to new purposes. We are alive to new conditions and are usually ahead of the demand.

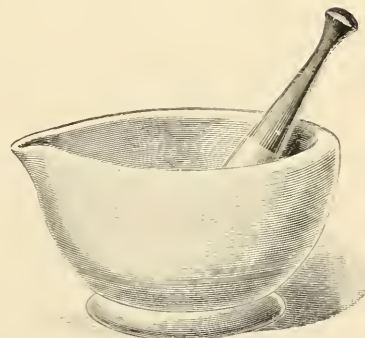
No.	Size	Article	Price
8210		Prepared Borax, per lb., \$0.40	Cake \$0.07
8212		" Tripoli Compound	4-oz. " .10
		" "	16-oz. " .12
8214		" Gold Rouge Compound	2- " " .10
8216		" Jewelers' Wax	16 " " .25
8219		" Lacquer	2 " Bottle .15
		" "	$\frac{1}{2}$ -pt. " .25
8220		Silver Solder, Easy Flowing	1-oz. Sheet, 1.25
8222		Wire Solder for soft soldering, per lb., \$0.35	Stick .07
8223		Brass Polish, Solarine, Qt., \$0.60; Pt., \$0.35; $\frac{1}{2}$ Pt., \$0.25; $\frac{1}{4}$ Pt., .10	
8225		Soldering Fluid, soft	Each, .15
8227		" " hard	" .20
8230	3 $\frac{1}{2}$ in.	Borax Slates	" .20
	5 "	" "	" .30
	7 "	" "	" .40
8232		Charcoal Block for Soldering	" .25
8234		Asbestos " "	" .20
8236	2 "	Felt Wheels, $\frac{3}{8}$ in. thick	" .20
	3 "	" " " "	" .30
	4 "	" " " "	" .50
	5 "	" " " "	" .75
	6 "	" " " "	" .95
8240	$\frac{1}{2}$ "	Hand Buffs	Doz., \$1.00; " .10
	1 "	" " " "	" 1.00 " .10
8242	2 $\frac{1}{2}$ "	Brush Wheels, soft bristle	" .20
	3 "	" " " "	" .25
	2 $\frac{1}{2}$ "	" " " stiff	" .20
	3 "	" " " "	" .25
	4 "	" " " "	" .40
	5 "	" " " "	" .50
8244		Rag Wheels, Muslin, either 3 or 4 in.	" .20
8250		Polishing Brush	" .20
		Pickling Compound in 10-lb. Boxes	" 1.00
		" " " 25 " "	" 2.00

This Compound is absolutely harmless. 1 lb. dissolves in 1 gal. water.

MORTARS AND PESTLES



Agate No. 8270



Wedgewood No. 8272

For prices see page 19.

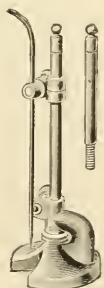
(Market Prices on German Silver, Brass and Copper.)



TOOLS FOR PIERCED BRASS WORK

(Market Prices on Brass and Copper.)

No.	Article	Price
839	Wooden Mallets, L. V. 1½ in. Face, one end Rounded	Each, \$0.25
	" " Hickory " " " "	" .12
	" " " both ends Flat	" .10
1525	Scissors, Curved Blades, 4½ in.	Pair, .50
1530	" Straight " " "	" .35
8280	Bead Fringe, 2½ in.	Yard, .50
	" 3 " " "	" .60
This comes in Gold, Amber or Clear, Red, Green and White, at same prices.		
8282	Chain for Making Fringe, 12 yds. in box, Medium Fine	Per box, .22
8284	" " " very " "	" .20
8289	Folders for bending edge of metal	.15
8290	Round Head Fasteners for Riveting	
	Either Brass, Copper or Silver,	Per 100 .20
	" 1000	1.35
9060	Awl, tapering gradually from point to handle	Each, .10
9062	" abruptly " " toward " "	" .10
9065	" made especially for the pierced work. This has fine needle point with rubber guard, which insures holes being of uniform size, furnished with three interchangeable points of assorted sizes	.25
9066	Awl the same as 9065, with one Stationary Point	.15
	Carbon Paper, 18x24	Sheet, .05
	Tracing Cloth, 30 in. wide	Yard, .35
	" Paper, 18x24	Sheet, .12
	Candle Shade Holders	.10
Patterns or Blue Prints. These are changing from time to time, so it doesn't seem advisable to catalogue them, except in a general way. We have designed for us by two first-class designers Blue Prints of such objects as the schools and individuals are using from time to time. At the present time this includes:		
Candle and Lamp Shades.		
Lamp Screens, Sconces, Lanterns.		
Desk Sets, Smoking Sets, Box Corners.		
Trays, Picture Frames, and many others.		
Stones in a small Brass Setting with prongs on back for riveting to use on Candle Shades or other light Brass articles giving a very pleasing effect. Round and Oval, two sizes each shape. Small, each, 10 cents; Large, each, 25 cents.		



No. 9252

SURFACE GAUGE WITH 8-in. SPINDLE

Price, each, \$1.70



SHEET METAL AND WIRE GAUGE

GAUGE

Nos. 0-36

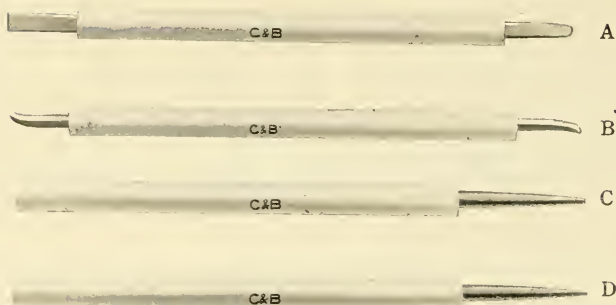
" 5-36

Price, \$2.10

" 1.70

(Write for Prices on Patterns and Blue Prints.)

LEATHER-WORKING TOOLS



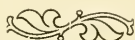
Set No. 8100

Finest steel, rubber covered handles, 6 in. long.

Shapes A, B, C or D

Set of 4, \$1.00

Other shapes and styles furnished if desired.



Our number 10 Catalogue following our No. 8 is presented after carefully studying conditions, not only for Metal Work in Public Schools but also in the Private Studio and Work Room. We have been most fortunate in having the advice of not only some of the foremost educators in these lines but also Practical Silversmiths and Arts and Crafts Workers in their own Studios. No apology is necessary for Manual Training. It has spread to the uttermost parts of the earth and together with Educational Manual Training, Vocational Manual Training is being recognized as necessary to a proper recognition of American Industrial Supremacy. Our experience of over thirty-five years in dealing in Tools and Hardware and that of over twenty years in specializing for Manual Training has fitted us to know the needs of a large number of Institutions both Public and Private.

We stand ready to advise and recommend equipment which our experience and judgment enable us to do and we invite correspondence, or better still an interview with those about to equip schools or classes. We aim to study conditions as they exist and to recommend what is suitable. Our standing and amount of sales enable us to buy right and we intend that our prices shall be as low as possible, consistent with quality and good service.

In sending orders, remit by any reliable way. We take *no risk*. If you do not do this with order, give us a reliable reference. State address and shipping directions clearly, and use number and description to avoid mistakes.

CHANDLER & BARBER.

Boston, Massachusetts, U. S. A., May 1909.

